

Rodrigo Silveira Vieira

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67
papers

2,405
citations

23
h-index

48
g-index

71
ext. papers

2,757
ext. citations

5.2
avg, IF

5.14
L-index

#	Paper	IF	Citations
67	Crosslinking of chitosan membranes using glutaraldehyde: Effect on ion permeability and water absorption. <i>Journal of Membrane Science</i> , 2007 , 301, 126-130	9.6	250
66	Copper, mercury and chromium adsorption on natural and crosslinked chitosan films: An XPS investigation of mechanism. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011 , 374, 108-114	5.1	217
65	Dynamic and static adsorption and desorption of Hg(II) ions on chitosan membranes and spheres. <i>Water Research</i> , 2006 , 40, 1726-34	12.5	195
64	Interaction of natural and crosslinked chitosan membranes with Hg(II) ions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006 , 279, 196-207	5.1	174
63	Adsorption of CO ₂ on nitrogen-enriched activated carbon and zeolite 13X. <i>Adsorption</i> , 2011 , 17, 235-246	6.6	144
62	Evaluation of batch adsorption of chromium ions on natural and crosslinked chitosan membranes. <i>Journal of Hazardous Materials</i> , 2008 , 152, 1155-63	12.8	138
61	Characterization of calcium oxide catalysts from natural sources and their application in the transesterification of sunflower oil. <i>Bioresource Technology</i> , 2014 , 151, 207-13	11	120
60	Adsorption of Cu(II) on porous chitosan membranes functionalized with histidine. <i>Journal of Membrane Science</i> , 2004 , 240, 227-235	9.6	107
59	CO ₂ adsorption in amine-grafted zeolite 13X. <i>Applied Surface Science</i> , 2014 , 314, 314-321	6.7	90
58	Characterization and application of dolomite as catalytic precursor for canola and sunflower oils for biodiesel production. <i>Chemical Engineering Journal</i> , 2015 , 269, 35-43	14.7	78
57	Adsorption and desorption of binary mixtures of copper and mercury ions on natural and crosslinked chitosan membranes. <i>Adsorption</i> , 2007 , 13, 603-611	2.6	70
56	Mercury Ion Recovery Using Natural and Crosslinked Chitosan Membranes. <i>Adsorption</i> , 2005 , 11, 731-736	6.6	61
55	Conversion of glycerol into lactic acid using Pd or Pt supported on carbon as catalyst. <i>Catalysis Today</i> , 2017 , 279, 317-326	5.3	48
54	Improvement in the adsorption of thiabendazole by using aluminum pillared clays. <i>Applied Clay Science</i> , 2013 , 71, 55-63	5.2	47
53	Blood protein adsorption on sulfonated chitosan and E-carrageenan films. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 111, 719-25	6	43
52	Chromium removal on chitosan-based sorbents [An EXAFS/XANES investigation of mechanism. <i>Materials Chemistry and Physics</i> , 2014 , 146, 412-417	4.4	42
51	Formation of complexes between functionalized chitosan membranes and copper: A study by angle resolved XPS. <i>Materials Chemistry and Physics</i> , 2017 , 185, 152-161	4.4	41

50	Characterization and evaluation of copper and nickel biosorption on acidic algae <i>Sargassum Filipendula</i> . <i>Materials Research</i> , 2010 , 13, 541-550	1.5	41
49	Versatility of Chitosan-Based Biomaterials and Their Use as Scaffolds for Tissue Regeneration. <i>Scientific World Journal, The</i> , 2017 , 2017, 8639898	2.2	33
48	Effect of the molecular weight of chitosan on its antifungal activity against <i>Candida</i> spp. in planktonic cells and biofilm. <i>Carbohydrate Polymers</i> , 2018 , 195, 662-669	10.3	33
47	Sulfonated chitosan and dopamine based coatings for metallic implants in contact with blood. <i>Materials Science and Engineering C</i> , 2017 , 72, 682-691	8.3	29
46	Adsorption of Copper(II) and Mercury(II) Ions onto Chemically-Modified Chitosan Membranes: Equilibrium and Kinetic Properties. <i>Adsorption Science and Technology</i> , 2012 , 30, 1-21	3.6	25
45	Relevance of the Physicochemical Properties of Calcined Quail Eggshell (CaO) as a Catalyst for Biodiesel Production. <i>Journal of Chemistry</i> , 2017 , 2017, 1-12	2.3	24
44	Synthesis of lactic acid from glycerol using a Pd/C catalyst. <i>Fuel Processing Technology</i> , 2015 , 138, 228-235	2	22
43	Oxidized bacterial cellulose membrane as support for enzyme immobilization: properties and morphological features. <i>Cellulose</i> , 2020 , 27, 3055-3083	5.5	22
42	Kinetic and Thermodynamic Study on the Liquid Phase Adsorption by Starchy Materials in the Alcohol-Water System. <i>Adsorption</i> , 2004 , 10, 211-218	2.6	21
41	In vitro evaluation of anti-calcification and anti-coagulation on sulfonated chitosan and carrageenan surfaces. <i>Materials Science and Engineering C</i> , 2016 , 59, 241-248	8.3	17
40	In vitro degradability and bioactivity of oxidized bacterial cellulose-hydroxyapatite composites. <i>Carbohydrate Polymers</i> , 2020 , 237, 116174	10.3	17
39	Glycerol Oligomerization Using Low Cost Dolomite Catalyst. <i>Waste and Biomass Valorization</i> , 2020 , 11, 1499-1512	3.2	16
38	Calcium/chitosan spheres as catalyst for biodiesel production. <i>Polymer International</i> , 2015 , 64, 242-249	3.3	14
37	Natural and Cross-Linked Chitosan Spheres as Adsorbents for Diesel Oil Removal. <i>Adsorption Science and Technology</i> , 2015 , 33, 783-792	3.6	14
36	BSA and fibrinogen adsorption on chitosan/carrageenan polyelectrolyte complexes. <i>Macromolecular Bioscience</i> , 2013 , 13, 1072-83	5.5	14
35	Glycerol valorization: conversion to lactic acid by heterogeneous catalysis and separation by ion exchange chromatography. <i>Biofuels, Bioproducts and Biorefining</i> , 2020 , 14, 357-370	5.3	14
34	Essential oils encapsulated in chitosan microparticles against <i>Candida albicans</i> biofilms. <i>International Journal of Biological Macromolecules</i> , 2021 , 166, 621-632	7.9	14
33	Strontium delivery systems based on bacterial cellulose and hydroxyapatite for guided bone regeneration. <i>Cellulose</i> , 2018 , 25, 6661-6679	5.5	13

32	Ethylene adsorption on chitosan/zeolite composite films for packaging applications. <i>Food Packaging and Shelf Life</i> , 2020 , 26, 100584	8.2	11
31	Dynamic adsorption of chromium ions onto natural and crosslinked chitosan membranes for wastewater treatment. <i>Materials Research</i> , 2010 , 13, 89-94	1.5	10
30	Production of chemically modified chitosan microspheres by a spraying and coagulation method. <i>Materials Research</i> , 2007 , 10, 347-352	1.5	10
29	Produção e caracterização de microesferas de quitosana modificadas quimicamente. <i>Polímeros</i> , 2005 , 15, 306-312	1.6	10
28	Stable microfluidized bacterial cellulose suspension. <i>Cellulose</i> , 2019 , 26, 5851-5864	5.5	9
27	Antifungal activity of different molecular weight chitosans against planktonic cells and biofilm of <i>Sporothrix brasiliensis</i> . <i>International Journal of Biological Macromolecules</i> , 2020 , 143, 341-348	7.9	9
26	Injectable hydrogel based on dialdehyde galactomannan and N-succinyl chitosan: a suitable platform for cell culture. <i>Journal of Materials Science: Materials in Medicine</i> , 2019 , 31, 5	4.5	9
25	Papain immobilized on alginate membrane for wound dressing application. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 194, 111222	6	9
24	Effects of histidine modification of chitosan microparticles on metal ion adsorption. <i>Reactive and Functional Polymers</i> , 2020 , 154, 104694	4.6	8
23	Papain immobilization on heterofunctional membrane bacterial cellulose as a potential strategy for the debridement of skin wounds. <i>International Journal of Biological Macromolecules</i> , 2020 , 165, 3065-3077	7.9	8
22	Resorbable bacterial cellulose membranes with strontium release for guided bone regeneration. <i>Materials Science and Engineering C</i> , 2020 , 116, 111175	8.3	7
21	Adsorption of Cellulase Isolated from <i>Aspergillus Niger</i> on Chitosan/Alginate Particles Functionalized with Epichlorohydrin. <i>Adsorption Science and Technology</i> , 2013 , 31, 17-34	3.6	7
20	Evaluation of Glass Beads Coated with Chitosan for the Adsorption of Copper(II) Ions from Aqueous Solution. <i>Adsorption Science and Technology</i> , 2012 , 30, 227-240	3.6	7
19	Temperature Effect on Pretreatment of the Activated Carbon Support (Pt/AC and Pd/AC) for Glycerin into Lactic Acid. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 14643-14657	3.9	7
18	Adsorption of copper on glass beads coated with chitosan: Stirred batch and fixed bed analysis. <i>Canadian Journal of Chemical Engineering</i> , 2017 , 95, 1164-1170	2.3	6
17	A potential bio-antioxidant for mineral oil from cashew nutshell liquid: an experimental and theoretical approach. <i>Brazilian Journal of Chemical Engineering</i> , 2020 , 37, 369-381	1.7	5
16	Anti-acetylcholinesterase and toxicity against <i>Artemia salina</i> of chitosan microparticles loaded with essential oils of <i>Cymbopogon flexuosus</i> , <i>Pelargonium x ssp</i> and <i>Copaifera officinalis</i> . <i>International Journal of Biological Macromolecules</i> , 2021 , 167, 1361-1370	7.9	4
15	Benzothiophene adsorption on M/SBA-15 and M/SBA-15/NH ₄ F modified (M = Fe or Co) in liquid phase batch system. <i>Canadian Journal of Chemical Engineering</i> , 2017 , 95, 2315-2323	2.3	3

14	Adsorption of CO ₂ on Amine-Grafted Activated Carbon. <i>Adsorption Science and Technology</i> , 2014 , 32, 141-151	3.6	3
13	Cellulose-based electrospun nanofibers: a review. <i>Cellulose</i> , 2022 , 29, 25	5.5	3
12	Advances in Bacterial Cellulose/Strontium Apatite Composites for Bone Applications. <i>Polymer Reviews</i> , 1-29	14	3
11	Recent Development of Chitosan Nanocomposites with Multiple Potential Uses. <i>Advanced Structured Materials</i> , 2015 , 497-531	0.6	2
10	AVALIAÇÃO DE CATALISADOR A BASE DE CONCHAS DE OSTRAS PARA A PRODUÇÃO DE BIODIESEL UTILIZANDO PLANEJAMENTO FATORIAL. <i>Holos</i> , 1, 316		2
9	Production and characterization of alginate bilayer membranes for releasing simvastatin to treat wounds. <i>Biointerphases</i> , 2020 , 15, 041002	1.8	2
8	Development, Validation, and Performance of Chitosan-Based Coatings Using Catechol Coupling. <i>Macromolecular Bioscience</i> , 2020 , 20, e1900253	5.5	1
7	The effects of the molecular weight of chitosan on the tissue inflammatory response. <i>Journal of Biomedical Materials Research - Part A</i> , 2021 , 109, 2556-2569	5.4	1
6	Production of Jet Biofuels by Catalytic Hydroprocessing of Esters and Fatty Acids: A Review. <i>Catalysts</i> , 2022 , 12, 237	4	1
5	Biopolymer-based coatings for cardiovascular applications 2020 , 273-287		0
4	Biomimetic Strontium Substituted Calcium Phosphate Coating for Bone Regeneration. <i>Coatings</i> , 2021 , 11, 908	2.9	0
3	Avaliação da satisfação de reabilitações com implantes zigomáticos. <i>Universidade Estadual Paulista Revista De Odontologia</i> , 2017 , 46, 357-361	1.3	
2	Antibacterial noncytotoxic chitosan coatings on polytetrafluoroethylene films by plasma grafting for medical device applications ¹		
1	SO ₃ H Functionalized Mesoporous Carbon as a Potential Catalyst to Obtain Glycerol Oleate Esters from Crude Glycerol. <i>Innovative Renewable Energy</i> , 2022 , 817-824	0.3	